

PATENT CLAIMS

What is claimed is:

1. A method for removing liquids from the surface of a strip, characterized in that the liquid is excited in such a way that it oscillates.
2. The method as claimed in claim 1, characterized in that the liquid is excited in such a way that it oscillates at one of its resonant frequencies.
3. The method as claimed in claim 1 or 2, characterized in that the liquid is excited by an excitation oscillation transferred by a fluid stream flowing over the liquid as a carrier medium.
4. The method as claimed in claim 3, characterized in that the fluid stream flows over the liquid in a laminar form.
5. The method as claimed in one of claims 1 to 4, characterized in that the liquid is excited by an oscillating motion of the strip.
6. The method as claimed in one of claims 1 to 5, characterized in that the oscillation of the liquid is generated directly or indirectly by contactless excitation methods.
7. A method for removing liquids from the surface of a strip, in particular as claimed in one of claims 1 to 6, characterized in that the liquid is evaporated by using the sonoluminescence effect.
8. A method for removing liquids from the surface of a strip, in particular as claimed in one of claims 1 to 7, characterized in that a laminar fluid stream is made to pass over the liquid.

9. The method as claimed in one of claims 1 to 8, characterized in that the removal of the liquid is performed on a moving strip.
10. A device for removing liquids from the surface of a strip, characterized by an oscillation generator, which can excite oscillations in the liquid or in a fluid or body contacting the liquid.
11. The device as claimed in claim 10, characterized by a blowing nozzle and a sound-wave generator, which introduces sound waves into the fluid supplied by the blowing nozzle.
12. The device as claimed in claim 10 or 11, characterized by a sound-wave generator, which introduces sound waves into the strip.
13. The device as claimed in one of claims 10 to 12, characterized by a loudspeaker, a piezoelectric sound transducer, a magnetic ultrasound generator, an EMAT or a laser for laser-induced ultrasound.